Section II. (Amendments to the Claims)

Please amend claims 9, 15, 16, 19 and 23, as set out below in the listing of claims 1-23 of the application.

- 1. (Original) A vector for preparing a vaccine which contains one or more than two gene among pgs B, pgs C and pgs A encoding poly-χ-glutamate synthetase complex and an antigen protein gene of human papilloma virus.
- 2. (Original) The vector for preparing a vaccine according to claim 1, in which said antigen protein gene is one or more than two genes selected from a group comprising capsid HPV L1 and HPV L2 of human papilloma virus.
- 3. (Original) The vector for preparing a vaccine according to claim 1, in which said antigen protein gene is one or more than two genes selected from a group comprising HPV E6 and HPV E7 antigen protein associated with a tumor induction.
- 4. (Currently amended) The vector for preparing a vaccine according to claim 1, in which pgs A gene encoding said poly-χ-glutamate synthetase complex is contained.
- 5. (Original) A Gram negative microbe which is transformed with the vector for preparing a vaccine of claim 1.
- 6. (Original) The microbe according to claim 5, in which said microbe is selected from a group comprising Escherichia coli, Salmonella typhi, Salmonella typimurium, Mycobacterium bovis, and Shigella.
- 7. (Original) A Gram positive microbe which is transformed with the vector for preparing a vaccine of claim 1.
- 8. (Original) The microbe according to claim 7, in which said microbe is selected from a group comprising Bacillus, Lactobacillus, Lactococcus, Staphylococcus, Lysteria, Monocytogenesis, and Streptococcus.
- 9. (Currently amended) A vaccine for treating or preventing mucosal tumor, which contains as an effective component, the microbes of claim 5 and claim 7 transformed with the vector of claim 1,

expressing an antigen protein onto a cell surface, crude antigen proteins extract from said microbes or antigen proteins purified from said microbes.

- 10. (Original) The vaccine for treating or preventing mucosal tumor according to claim 9, which can be administered orally or be edible.
- 11. (Original) The vaccine for treating or preventing mucus tumor according to claim 9, which can be injected subcutaneously or peritoneally.
- 12. (Original) The vaccine for treating or preventing mucosal tumor according to claim 9, which can be sprayed to the nasal cavity.
- 13. (Original) The vector for preparing a vaccine according to claim 1, which has the genetic map as illustrated in Fig. 1 and is named as pHCE2LB: pgsA-HPV L1.
- 14. (Original) The vector for preparing a vaccine according to claim 1, which has the genetic map as illustrated in Fig. 5 and is named as pHCE2LB: pgsBCA- HPV E7.
- 15. (Original) A microbe which is transformed with the <u>a</u> vector for preparing a vaccine of claim 13 or claim 14 selected from the group consisting of pHCE2LB: pgsA-HPV L1 and pHCE2LB: pgsBCA- HPV E7.
- 16. (Currently amended) The microbe according to claim 15, in which Lactobacillus or Salmonella Les is used as a host cell.
- 17. (Original) The Escherichia coli transformant which is transformed with the vector of claim 13 (accession number: KCTC 10349 BP)
- 18. (Original) The Escherichia coli transformant which is transformed with the vector of claim 13 (accession number: KCTC 10520 BP)
- 19. (Currently amended) A vaccine for treating or preventing mucosal tumor which includes as an effective component, the <u>microbes microbe</u> of claim 16 expressing an antigen protein onto a cell surface, crude antigen proteins extract from said <u>microbes microbe</u> or antigen proteins purified from said <u>microbes microbe</u>.
- 20. (Original) The vaccine for treating or preventing mucosal tumor according to claim 19, which can be administered orally or be edible.

- 21. (Original) The vaccine for treating or preventing mucosal tumor according to claim 19, which can be injected subcutaneously or peritoneally.
- 22. (Original) The vaccine for treating or preventing mucosal tumor according to claim 19, which can be sprayed to the nasal cavity.
- 23. (Currently amended) A washing solution for a genital organ, which includes as an effective component, the <u>microbes microbe</u> of claim 16 expressing an antigen protein onto a cell surface, crude antigen protein extract from said <u>microbes microbe</u> or antigen proteins purified from said <u>microbes microbes</u>.